New Brockton Field Office Technical Guide Section II-A April 2002

#### Physical Properties of the Soils

#### Coffee County, Alabama

NOTE: Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.

Map symbol and soil name	   Depth	Depth   Sand		   Sand	   Silt	   Clav	   Moist	Permea-	  Available	   Linear	   Organic	Erosi	on fac			Wind  - erodi-
		   	     		bulk     density	bility	water  capacity		matter	i	   Kf		bility  group	bility		
	In	Pct	Pct	Pct	   g/cc	In/hr	   In/in	Pct	Pct	<u> </u>	'		'	'		
2: Bibb	   0-12   12-60	     	     			0.57-1.98 0.57-1.98				   .20   .37	     .20   .37	     5 	     5 	   56 		
3: Bigbee	0-44   0-44   44-99	   	   			5.95-19.98 5.95-19.98			0.5-2.0	1 .10	.10   .17	   5 	   			
4: Bladen	0-13   13-69	   	   	•		0.57-1.98 0.06-0.20			1.0-3.0	.24	.24	5   1	3	   86 		
5: Bonifay	0-45 45-70	   	   			5.95-19.98 0.57-1.98					.10   .24	   5 	2	134		
6: Cowarts	   0-6   6-25   25-62	   	   	10-30	1.30-1.50	1.98-5.95 0.57-1.98 0.06-0.57	0.10-0.14	0.0-2.9	0.2-1.0		   .24   .28   .24	4	3	   86 		
7: Dothan	   0-8   8-49   49-80	     	     	18-35	1.40-1.60	1.98-5.95 0.57-1.98 0.20-0.57	0.10-0.14	0.0-2.9		.24   .28   .28		     5   	3	   86 		
8: Dothan	   0-8   8-49   49-80	     	     	18-35	1.40-1.60	1.98-5.95 0.57-1.98 0.20-0.57	0.10-0.14	0.0-2.9			   .24   .28   .28	     5   	3	   86   		
9: Dothan	     0-8   8-49   49-80	     	     	18-35	1.40-1.60	1.98-5.95 0.57-1.98 0.20-0.57	0.10-0.14	0.0-2.9	   0.5-1.0   	.28	   .24   .28   .28	     5 	3	   86 		

Map symbol and soil name	   Depth	Depth   Sand		   Clay			  Available		   Organic	i	on fac		erodi-	Wind - erodi-	
	    -	   	   	   	bulk     density   	4	water  capacity				   Kf		bility  group	bility  index	
	   In	Pct	Pct	Pct	   g/cc	In/hr	In/in	Pct	Pct	'	¦	¦	<u>'</u>	<u> </u>	
10:			Į.							1	1	1			
Dothan	ı ı 0–8		 	I 10-18	ı I1 30-1 701	1.98-5.95	10 08-0 13	I	1 0 5-1 0	1 24	1 .24	1 5	1 3	I 86	
Boenan	8-49					0.57-1.98				1 .28	1.28				
	49-80	i	i	18-40	1.45-1.70	0.20-0.57	0.08-0.12	0.0-2.9	i	1.28	.28	i	İ	i	
Urban Land	 		 	 	 			 				-			
11:	 	 	[ [	 	 					1		1			
Eunola	0-12			3-11	  1.45-1.70	1.98-5.95	0.06-0.11	0.0-2.9	0.5-2.0	1.15	1.15	i 5	1 2	134	
	12-44		· 	18-35	1.35-1.65	0.57-1.98	0.12-0.16	0.0-2.9	0.2-1.0	.28	.28	i	İ	İ	
	44-65			8-25	1.35-1.65	1.98-5.95	0.10-0.14	0.0-2.9	0.0-0.5	.24	.24	İ	İ	İ	
12:	 	 	l 	 	 					1		1			
Eunola	0-12			3-11	1.45-1.70	1.98-5.95	0.06-0.11	0.0-2.9	0.5-2.0	1.15	1.15	5	2	134	
	12-44			18-35	1.35-1.65	0.57-1.98	0.12-0.16	0.0-2.9	0.2-1.0	1.28	1.28				
	44-65			8-25	1.35-1.65	1.98-5.95	0.10-0.14	0.0-2.9	0.0-0.5	.24	.24	Į.			
Urban Land	 		 									-			
13:	 		 	 	 										
Eunola	0-12					1.98-5.95				.15	.15	5	2	134	
	12-44					0.57-1.98				1.28	1.28				
	44-65			8-25	1.35-1.65	1.98-5.95	0.10-0.14	0.0-2.9	0.0-0.5	1.24	.24	1	1		
Chastain	I 0-8		 	   15-35	  1.20-1.40	0.20-0.57	0.12-0.18	3.0-5.9	1 1.0-6.0	1.32	1.32	1 5	1 5	1 56	
	8-44	·				0.06-0.20					.37	i	i		
	44-60	i		2-10	1.50-1.70	0.06-0.20	0.12-0.16	3.0-6.0	1.0-3.0	.10	.10	į	į	į	
14:	 	 	 	 	 					1	1	1	1	1	
Fuquay	0-26			2-12	11.60-1.70	5.95-19.98	0.04-0.09	0.0-2.9	0.5-2.0	1.10	1.10	5	2	134	
	26-59					0.57-1.98				1.20	1.20				
	59-90			20-35	1.40-1.60	0.06-0.20	0.10-0.13	0.0-2.9		1.20	.20				
15:	! 				 							İ			
Grady	0-7					0.57-1.98					.24	5	6	48	
	7-62			45-65	1.50-1.60	0.06-0.20	0.12-0.16	3.0-5.9		1.10	1.10	1	1		
16:	! 		l I		 					i		i			
Kalmia	0-5					1.98-5.95			0.5-2.0	1.20	.20	5	3	86	
	5-31					0.57-1.98				1.24	.24	1	1		
	31-65 		 	2-10	1.60-1.75  	5.95-19.98	10.03-0.06	0.0-2.9		1 .10	1 .10	 			
17:	i İ	i	i i	İ	i i		İ		i	İ	İ	İ	į	i	
Lucy						5.95-19.98					1.10	5	2	134	
	33-75			15-35	1.40-1.60	0.57-1.98	10.10-0.12	0.0-2.9		.24	.24	1	1		
	1	1	I	1	1		I		1	1	1	I	1	1	

Map symbol	   Depth	   Sand	   Silt	   Clay			  Available    water    capacity   	extensi-					erodi-	Wind  erodi-
and soil name		   	 	 	bulk   density						   Kf 		-	ility bility roup  index 
	In	Pct	Pct	Pct	   g/cc	In/hr	In/in	Pct	Pct	<u> </u>	' 	'	<u>'</u>	<u> </u>
18:	 		[ 				 	 		1	 			
Lucy	0-33			2-12	1.30-1.70	5.95-19.98	0.06-0.10	0.0-2.9	0.5-1.0	1.10	.10	1 5	1 2	1 134
	33-75	i	i			0.57-1.98					.24		i -	
 19:	 	 	 	 	 		 	 		1	 	 	 	
Luverne	0-5	·	· 	7-20	1.35-1.65	1.98-5.95	0.06-0.15	0.0-2.9	0.5-1.0	.24	.24	4	3	86
	5-36			35-50	1.25-1.55	0.20-0.57	0.12-0.18	3.0-5.9		.28	.28	ĺ	İ	İ
	36-65			20-40	1.35-1.65	0.20-0.57	0.12-0.18	0.0-2.9		.28	.28	ļ.	ļ.	
Lucv	l I 0−33		 	2-12	  1.30-1.70	5.95-19.98	  0.06-0.10	   0.0-2.9	0.5-1.0	1.10	1 .10	I I 5	1 2	1 134
	33-75	i	i	15-35	1.40-1.60	0.57-1.98	0.10-0.12	0.0-2.9		.24	.24	į	į	į
20:	 	 	 	 	 		 	 			 	 	 	
Orangeburg	0-8	i	i	7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	I 5	3	86
	8-15	·	·	7-18	11.50-1.65	0.57-5.95	0.07-0.10	0.0-2.9		.20	.20	i	i	İ
	15-82	i	i			0.57-1.98				.24	.24	į	į	į
21:	 	 	 	 	 		 	 			 	 	 	
Orangeburg	0-8			7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	.20	.20	5	. 3	86
	8-15			7-18	1.50-1.65	0.57-5.95	0.07-0.10	0.0-2.9		.20	.20	ĺ	İ	İ
	15-82			18-35	1.60-1.75	0.57-1.98	0.10-0.13	0.0-2.9		.24	.24		Į.	
22 <b>:</b>	 	 	 	 	 		 	 			 	 	 	
Orangeburg	0-8			7-15	1.30-1.50	1.98-5.95	0.07-0.10	0.0-2.9	0.5-2.0	1.20	.20	5	3	86
1	8-15			7-18	1.50-1.65	0.57-5.95	0.07-0.10	0.0-2.9		1.20	.20			
	15-82			18-35	1.60-1.75	0.57-1.98	0.10-0.13	0.0-2.9		.24	.24			
23:	 	 	 	 	 		 	 					 	
Orangeburg	0-8					1.98-5.95				1.20	.20	5	3	86
I	8-15					0.57-5.95				1.20	.20			
	15-82			18-35	1.60-1.75	0.57-1.98	0.10-0.13	0.0-2.9		.24	.24			
Urban Land												-		
24 <b>:</b>	 		1				 	 			 			
Orangeburg	ı I 0-8			ı ı 7–15	ı 11 30-1 501	1.98-5.95	IO 07-0 10	I	1 0 5-2 0	1.20	1.20	15	1 3	I 86
orangebarg	8-15					0.57-5.95				1.20	1 .20	1	1	1
i	15-82	i	i			0.57-1.98					.24	i	i	i
Troup	l I 0-57		 	   2-12	  1.30-1.70	5.95-19.98	  0.03-0.10	1 0.0-2.9	0.5-1.0	1.10	   .10	l I 5	l l 2	   134
	57-85	i	i			0.57-1.98				1.20	1 .20		. <u>-</u>	
25 <b>:</b>	 	 	I I	 			 	 		1	 	 	 	
Pits							' 					i -	· 	
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Map symbol and soil name	   Depth	   Sand	   Silt	   Clay			  Available		   Organic	i	on fac		erodi-	Wind  erodi-
	   	   	 	   	bulk     density   		water  capacity 				   Kf		bility  group 	bility  index
	'   In	Pct	Pct	Pct	''   g/cc	In/hr	   In/in	   Pct	Pct	'	¦	i	¦	<u> </u>
26:			ļ.							1	1	1		
Red Bay	I I 0-6		 	Ι Ι 1=12	I I1 45 <b>–</b> 1 60 I	5.95-19.98	I IN 06-0 11	I I	1 0 5-2 0	I .15	1.15	1 5	1 2	I 134
Red Bay	I 6-13		l			0.57-5.95			1	1 .15	1 .15	1	1 4	1 124
	13-85					0.57-1.98			1	1.17	1 .17	i		
	İ	İ	ĺ	ĺ	i i		l	ĺ	İ	İ	Ì	ĺ	Ì	İ
27:						- 0- 10 00								
Red Bay						5.95-19.98				.15	.15	5	2	134
	6-13	•		•		0.57-5.95				.15	1.15	1		
	13-85			1 18-35	1.30-1.50  	0.57-1.98	10.10-0.17	1 0.0-2.9		1 .1/	1.17	1	 	1
28:		i	İ	İ	i i		İ			i	i	i	İ	i
Red Bay						5.95-19.98					.15	5	2	134
	6-13			•		0.57-5.95					.15			
	13-85			18-35	1.30-1.50	0.57-1.98	0.10-0.17	0.0-2.9		.17	.17	1		
29:	 	 	l I	 	 		 	 		l I	1	1	 	1
Shadygrove	I 0-6	i		6-18	1.30-1.55	1.98-5.95	0.06-0.15	0.0-2.9	0.5-1.0	.24	.24	I 3	i 3	86
	6-23	i				0.06-0.20				.32	.32	i	İ	i
	23-65	i		30-50	1.20-1.60	0.00-0.06	0.02-0.09	6.0-8.9		.24	.32	İ	İ	İ
Luverne	l l 0-5			   7 <b>-</b> 20	  1 35=1 65	1.98-5.95	10 06-0 15	1 0 0-2 9	1 0 5-1 0	1 .24	1 .24	   4	   3	l 1 86
Duverne	1 5-36		 			0.20-0.57			1	1 .23	1 .28	1 =	1	1 00
	1 36-65		 			0.20-0.57			1		1 .28	İ		
	İ	į	İ	İ	i i		İ	İ	İ	İ	İ	İ	İ	İ
30:	l I 0-57					E 0E 10 00								
Troup	U-57   57-85					5.95-19.98 0.57-1.98			0.5-1.0	1.10	1.20	5	2	134
	5/-85 		 	1 15-35	1.40 <b>-</b> 1.60  	0.57-1.98	10.10-0.13	0.0-2.9 		1 .20	1 .20	1		1
31:		i	İ	İ	i i		İ			i	i	i	İ	i
Troup	0-57					5.95-19.98				.10	1.10	5	2	134
	57-85			15-35	11.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9		1.20	.20	1		
32:	 	 	l I	 	 		 	 		1	1	1	 	1
Troup	0-57			2-12	1.30-1.70	5.95-19.98	0.03-0.10	0.0-2.9	0.5-1.0	i .10	1.10	i 5	2	134
1	57-85	i		15-35	11.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9		1.20	.20	i	į	İ
				7.15		1 00 5 05								
Orangeburg	0-8					1.98-5.95			0.5-2.0	1.20	1.20	5	2	134
	8-15   15-82			•		0.57-5.95 0.57-1.98			1	1.20	1 .20	I I	 	1
	10 02	i	i İ	10 00		3.37 1.30			İ			i	İ	i
33:		!	Į.			- 0						! _		
Troup	0-57					5.95-19.98			0.5-1.0	.10	1.10	5	2	134
	57 <b>-</b> 85			15-35	1.40-1.60	0.57-1.98	10.10-0.13	0.0-2.9		1.20	.20	1		1
Urban Land			·	·	 							-		
	I	i	I	İ	I i		I	I	I	i	i	i	i	i

										Erosi	on fac	tors	Wind	Wind
Map symbol	Depth	Sand	Silt	Clay	Moist	Permea-	Available	Linear	Organic				. *	- erodi-
and soil name					bulk	bility	water	extensi-	matter				bility	/ bility
					density	(Ksat)	capacity	bility	1	Kw	Kf	T	group	index
										.	!	ļ	<u> </u>	-
	In	Pct	Pct	Pct	g/cc   	In/hr	In/in	Pct	Pct		 	 	1	I
34:		! 	! 	! 			1				! 	İ	i	
Troup	0-57			2-12	1.30-1.70	5.95-19.98	0.03-0.10	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	57-85			15-35	1.40-1.60	0.57-1.98	0.10-0.13	0.0-2.9		1.20	.20			
							1							T
Lucy	0-33			•		5.95-19.98					.10	5	2	134
	33-75			15-35	1.40-1.60	0.57-1.98	0.10-0.12	0.0-2.9		.24	.24			
	l	l	l	l	ll	l	l	l	l	.	l	l	.l	_